RECOVERY ACT
ZORTMAN/LANDUSKY MINE
REQUEST FOR STEEL NEUTRALIZATION TANK QUOTATIONS

REQUESTED BY:
WILLIAM C. MAEHL, P.E.
SPECTRUM ENGINEERING, INC.
1413 4TH AVENUE NORTH
BILLINGS, MONTANA 59101

REQUESTED ON BEHALF OF:
MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

DATED: AUGUST 5, 2010

EQUIPMENT QUOTATIONS DUE DATE: AUGUST 16, 2010

RECOVERY ACT - ZORTMAN/LANDUSKY MINE REQUEST FOR 2 STEEL NEUTRALIZATION TANKS

The Montana Department of Environmental Quality (DEQ) jointly oversees reclamation of the Zortman and Landusky mines in co-operation with the USDI Bureau of Land Management (BLM) via a Memorandum of Understanding dated August 2, 2004. The BLM has secured funding for the Zortman/Landusky site through the American Recovery and Reinvestment Act of 2009. The economic stimulus money is being managed by the DEQ through their contract with Spectrum Engineering, Inc. in Billings, Montana.

Spectrum Engineering is soliciting construction and delivery of two (2) steel neutralization tanks to be used at the Swift Gulch Treatment System at the Landusky Mine site in north-central Montana. The first tank will be two thousand five hundred (2500) gallon total capacity and measuring nine (9) feet in height and seven (7) feet in diameter. The second tank will be four thousand seven hundred gallons (4700) gallons total capacity and measuring eight (8) feet in height and ten (10) feet in diameter. The tanks will be permanently placed on a concrete footing inside the treatment facility.

The two thousand five hundred (2500) gallon tank will have the following specifications:

- Two (2) lifting hooks.
- Welded cylindrical shape open top tank.
- Removable tank covers with lateral supports – tank cover needs to be air tight to ensure hydrated lime dust is contained within the tank. A worker will be removing covers and each section should be sized appropriately for assembly and disassembly without the use of equipment. Each section of the cover must have two (2) handles and multiple fasteners to allow removal and cleaning by a single worker.
- Seven (7) foot maximum diameter – A-36 minimum 3/16 standard carbon steel.
- Nine (9) foot maximum height – A-36 minimum 3/16 standard carbon steel.
- Tank bottom - A-36 minimum 3/16 standard carbon steel and coating on tank bottom to inhibit rust formation between concrete and bottom of tank.
- Minimum capacity of two thousand five hundred (2500) gallons.
- Support structure and mounting location across open top sufficient for one mixer weighing one hundred and twenty-five (125) pounds (US) (See Sheet 1 of 1 for mixer support and mounting instructions). Mixer support structure must have sufficient strength to support an additional one hundred and fifty (150) pounds of lime conveyance equipment to be mounted at any location along the mixer support structure.

The 4700 gallon tank will have the following specifications:

- Two (2) lifting hooks.
- Welded cylindrical shape open top tank.

- Removable tank covers with lateral supports – tank cover needs to be air tight to ensure hydrated lime dust is contained within the tank. A worker will be removing covers and each section should be sized appropriately for assembly and disassembly without the use of equipment. Each section of the cover must have two (2) handles and multiple fasteners to allow removal and cleaning by a single worker.
- Ten (10) foot maximum diameter – A-36 minimum 3/16 standard carbon steel.
- Eight (8) foot maximum height – A-36 minimum 3/16 standard carbon steel.
- Tank bottom - A-36 minimum 3/16 standard carbon steel and coating on tank bottom to inhibit rust formation between concrete and bottom of tank.
- Minimum capacity of four thousand seven hundred (4700) gallons.
- Support rails across open top sufficient for one mixer weighing one hundred and twenty-five (125) pounds (US). Mixer support structure must have sufficient strength to support an additional one hundred and fifty (150) pounds of lime conveyance equipment to be mounted at any location along the mixer support structure.

Date Advertised:	August 5, 2010
Closing Date:	August 16, 2010 at 2:00 PM MST (RFQ responses may be mailed to the address listed below, emailed, or hand delivered)
Award Basis:	Best Value for the State of Montana DEQ
Award Date:	August 17th, 2010
Delivery Date:	40 calendar days from date of notice to proceed.
Terms:	Time and materials with billing not to exceed contract price.
Engineering Mgr:	Bill Maehl
Telephone:	406-259-2412 ext. 3
Email Address:	maehl@spectrum-eng.com
Mailing Address:	Spectrum Engineering, 1413 4th Avenue North, Billings, MT 59101
Agency:	Montana DEQ
Project Mgr:	Wayne Jepson
Telephone:	406-444-0529
Questions:	Bidders will be allowed a period of 8 days between August 5 and August 12, 2010 in which to submit questions via e-mail or by mail. Spectrum will provide responses to all questions by August 13, 2010. However, Spectrum shall reserve the sole right to determine the adequacy of any response and to decline to answer any question. Spectrum will distribute copies of all questions and responses to all bidders via email.
Qualifications:	The tank manufacturer must have prior experience in the type of work being requested with Best Value points awarded for direct experience with tank manufacturing. The RFQ response must demonstrate that the manufacturer is capable of production and delivery of the neutralization tanks.

Deliverables: (1) CAD drawings of the tanks delivered for final approval 7 calendar days after winning manufacturer is selected. Drawings are to be delivered August 23, 2010 for approval and immediate manufacturing of the tanks with selected options based on quotation price.
(2) Approved CAD drawings delivered on August 23, 2010 and tanks to be delivered no later than October 4, 2010 to the Swift Gulch Water Treatment system located 165 miles north of Billings, Montana within Swift Gulch north of the Landusky Mine in north-central Montana. On-site equipment will be available for tank unloading.

Work and Cost Provide a detailed quotation for neutralization tanks meeting the above specification including all dimensions and features as requested in the specifications.

Proposal Evaluation:

Name, address, contact information
Qualifications of manufacturer
2500 Gallon Tank Costing Details

1. Cost to fabricate one 2500 gallon steel tank
2. Cost to deliver 2500 gallon tank to site
3. Optional cost to provide protective coating of tank interior for resistant to acidic water with pH of 2.8 (SU)
4. Optional cost to provide a 24 to 30 inch (twenty-four to thirty) diameter manway located near the bottom side of the tank

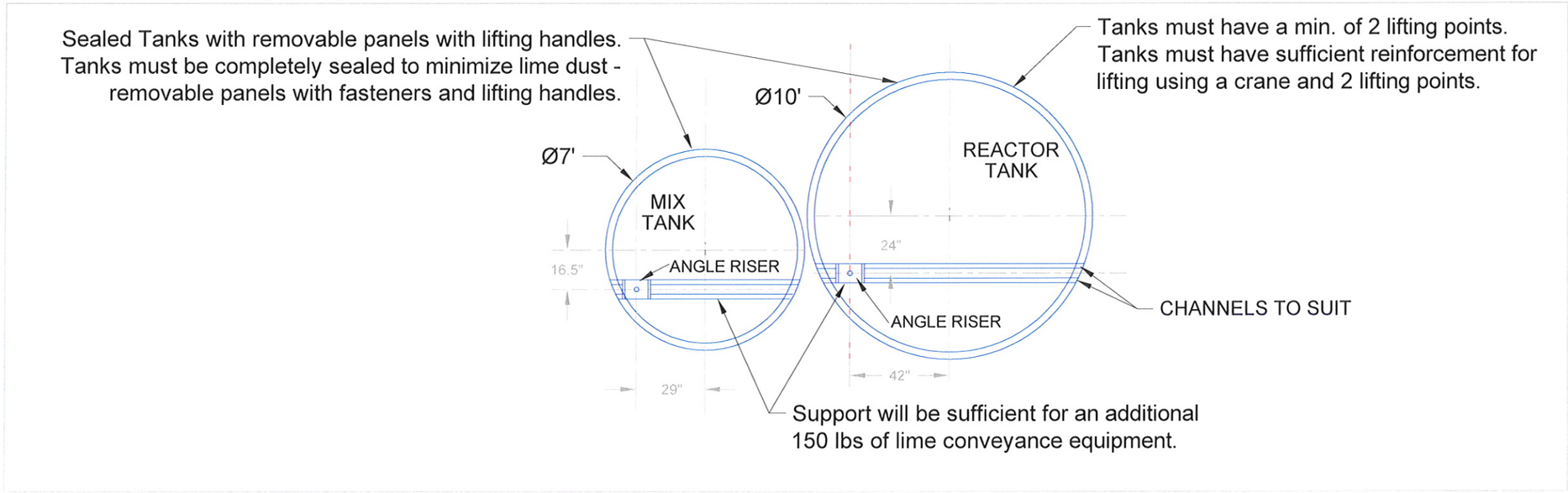
4700 Gallon Tank Costing Details

1. Cost to fabricate one 4700 gallon steel tank
2. Cost to deliver 4700 gallon tank to the site
3. Optional cost to provide protective coating of tank interior for resistant to acidic water with pH of 2.8 (SU)
4. Optional cost to provide a 24 to 30 inch (twenty-four to thirty) diameter manway located near the bottom side of the tank

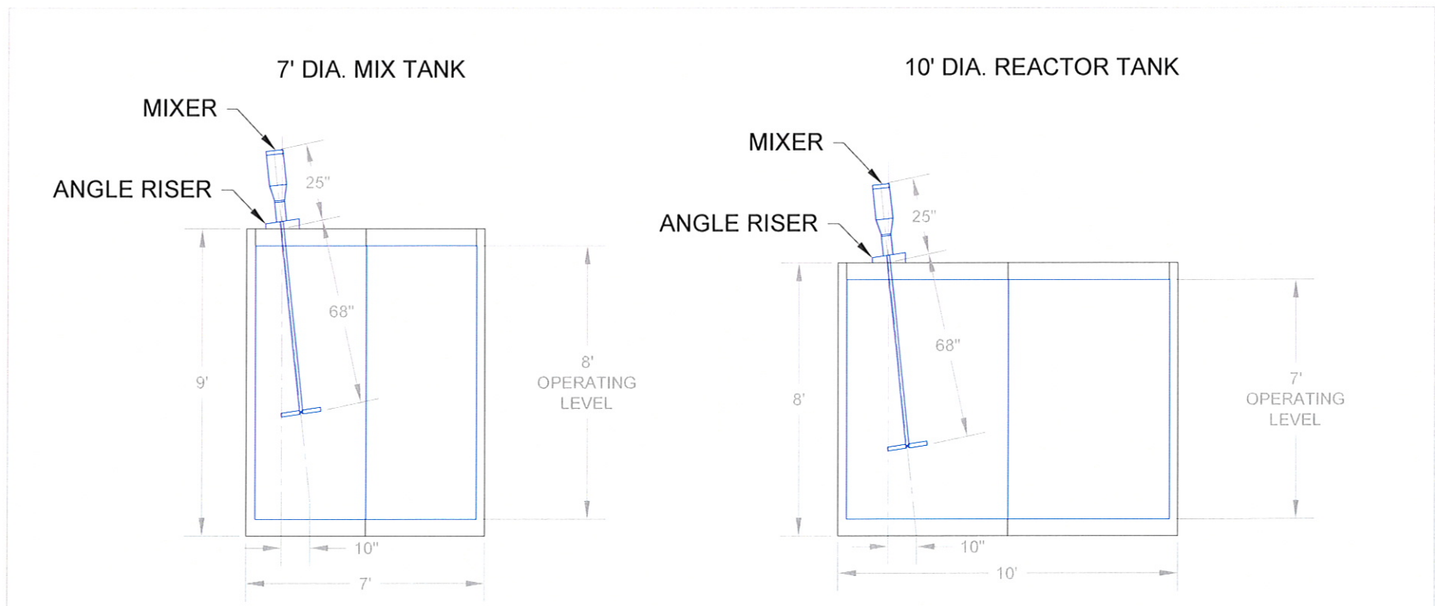
Spectrum Engineering reserves the right to select the Proposal which, in their opinion, offers the Best Value to the State of Montana.

Payment Terms: Successful bidder shall supply written invoice(s). Payment shall be made by Spectrum Engineering within 60 days of the date of the invoice.

Attachments: Tank drawings with mixers and support structure



TANK PLAN VIEW
SCALE: 1/2" = 1'0"



TANK CROSS SECTION
SCALE: 1/2" = 1'0"

NOTE

1. Mix tank is 7' diameter with 8' operating level.
2. Reactor tank is 10' diameter with 7' operating level.
3. Tanks must have a minimum of 2 lifting points - tanks must have sufficient reinforcement for lifting using a crane and 2 lifting points.
4. Tanks are sealed - removable panels with lifting handles - Tanks must be completely sealed to minimize lime dust - removable panels with fasteners and lifting handles.
5. Support will be sufficient for an additional 150 lbs of lime conveyance equipment.

REV	DESCRIPTION	DATE	BY

DESIGNED BY:	Ionic Water
DRAWN BY:	SPS
DRAWING:	Swift Gulch Tank.dwg
DATE:	6/25/2010
SCALE:	As Shown

Ionic Water Technologies
405 Western Rd, Suite 55
Reno, Nevada 89501

Ph: 775-321-8100

Spectrum Engineering
1413 4th Ave. North
Billings, MT 59101

Ph: 406-373-5750

SWIFT GULCH WATER TREATMENT
MIX TANK & REACTOR TANK
SHEET 1 of 1